

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P857839

Luminaire Tested: **LX4C35D010 EX4C359830 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C35D010 EX4C359830 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

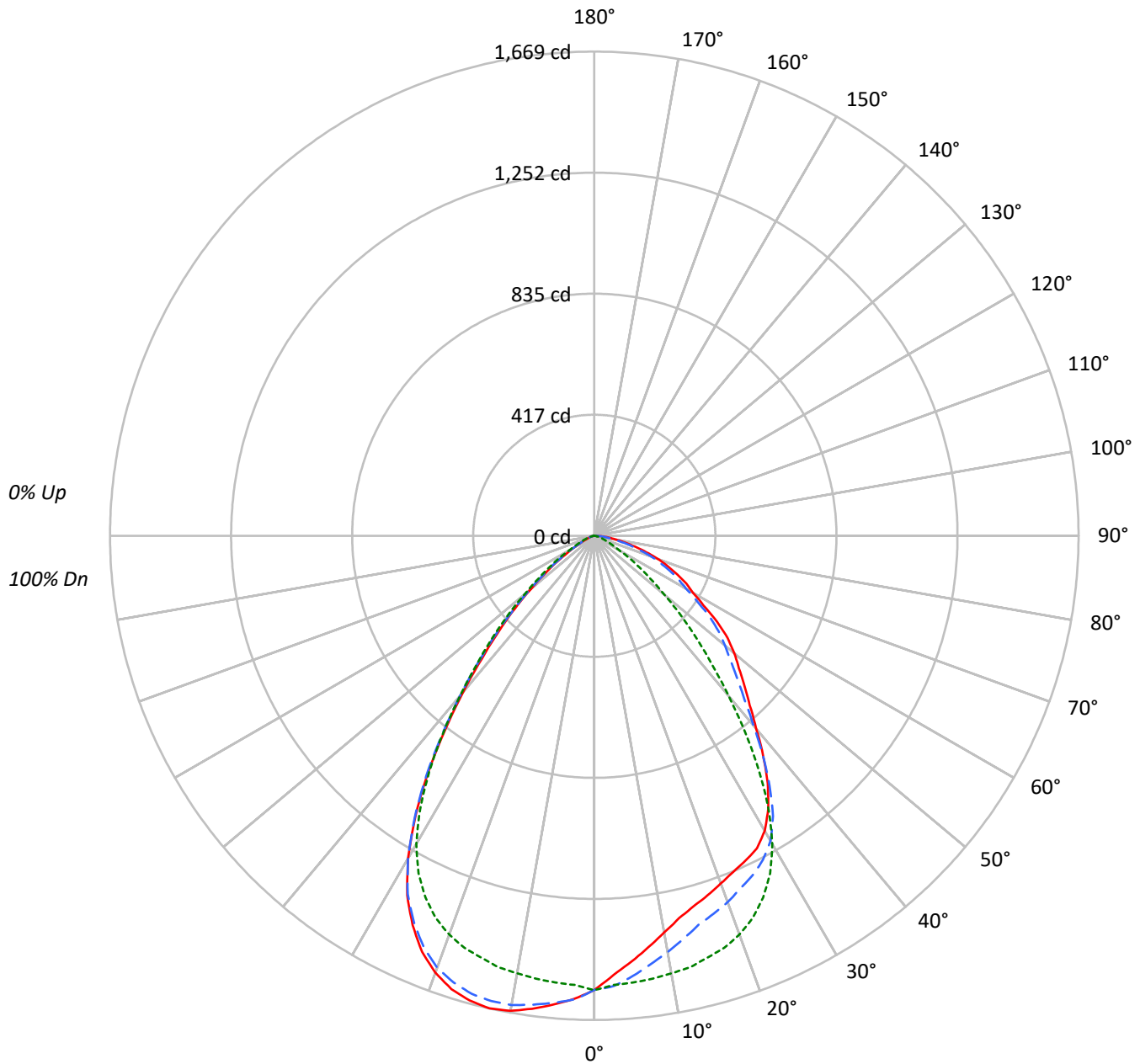
Lumens per Lamp: N/A
Luminaire Lumens: 2744.8 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P857839

CATALOG NUMBER: LX4C35D010 EX4C359830 4LBSWNH

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70		
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46		
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	192376	192376	192376
5°	181654	190620	200067
10°	173189	191065	207420
15°	168103	191455	210953
20°	166730	191270	209468
25°	167395	186536	200769
30°	166599	174047	182048
35°	156155	148597	150111
40°	139156	115213	112614
45°	127265	85898	80633
50°	120333	60166	54394
55°	110650	40632	34142
60°	96661	23784	18846
65°	91511	15232	10552
70°	83370	10884	6537
75°	68969	7642	4842
80°	54264	4316	2830
85°	48349	2960	0



TEST NUMBER: P857839

CATALOG NUMBER: LX4C35D010 EX4C359830 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	5.4
10°-20°	424.4	15.5
20°-30°	629.2	22.9
30°-40°	630.0	23.0
40°-50°	440.3	16.0
50°-60°	262.0	9.5
60°-70°	136.7	5.0
70°-80°	60.8	2.2
80°-90°	13.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1201.6	43.8
0°-40°	1831.6	66.7
0°-60°	2534.0	92.3
0°-90°	2744.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2744.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1566	1566	1566	1566	1566	
5°	1473	1524	1546	1616	1622	138
15°	1322	1388	1505	1634	1659	374
25°	1235	1291	1376	1471	1481	569
35°	1041	1053	991	1009	1001	646
45°	732	696	494	478	464	569
55°	517	484	190	166	159	458
65°	315	289	52	38	36	311
75°	145	127	16	10	10	157
85°	34	26	2	2	0	38
90°	0	0	0	0	0	



TEST NUMBER: P857839

CATALOG NUMBER: LX4C35D010 EX4C359830 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9
2.5°	1515.4	1533.6	1515.4	1521.5	1545.7	1523.5	1535.6	1535.6	1529.5	1543.6	1553.8
5°	1473.0	1491.2	1473.0	1481.1	1507.3	1485.1	1499.3	1495.2	1497.2	1509.4	1523.5
7.5°	1430.7	1444.8	1428.7	1438.7	1463.0	1444.8	1456.8	1456.8	1458.9	1477.0	1489.2
10°	1388.3	1400.4	1388.3	1396.4	1422.6	1406.5	1414.6	1416.5	1422.6	1438.7	1456.8
12.5°	1349.9	1360.0	1348.0	1360.0	1382.2	1366.1	1376.1	1378.2	1384.3	1402.4	1422.6
15°	1321.7	1331.8	1319.7	1329.8	1349.9	1337.8	1345.9	1349.9	1353.9	1370.1	1388.3
17.5°	1299.5	1307.6	1297.5	1309.6	1325.8	1311.7	1323.7	1323.7	1329.8	1345.9	1366.1
20°	1275.3	1283.3	1275.3	1285.4	1303.5	1291.4	1301.5	1301.5	1307.6	1325.8	1343.9
22.5°	1253.1	1257.1	1253.1	1261.2	1279.3	1269.2	1275.3	1277.3	1283.3	1299.5	1315.7
25°	1234.9	1243.0	1238.9	1247.0	1259.1	1249.1	1255.0	1257.1	1263.2	1277.3	1291.4
27.5°	1214.7	1218.7	1214.7	1224.9	1234.9	1226.9	1232.9	1230.9	1234.9	1247.0	1259.1
30°	1174.4	1178.4	1178.4	1184.4	1192.6	1188.5	1194.6	1188.5	1192.6	1202.6	1214.7
32.5°	1115.8	1117.9	1119.8	1126.0	1132.0	1126.0	1130.0	1130.0	1130.0	1138.1	1146.2
35°	1041.2	1045.2	1043.2	1047.3	1053.3	1051.3	1051.3	1049.2	1045.2	1049.2	1053.3
37.5°	956.5	950.4	950.4	956.5	960.5	952.5	956.5	952.5	952.5	954.4	954.4
40°	867.7	861.6	867.7	869.7	871.7	867.7	865.7	861.6	855.5	857.6	853.6
42.5°	793.0	788.9	791.0	791.0	793.0	788.9	791.0	782.9	776.8	772.8	766.8
45°	732.5	726.4	732.5	728.5	728.5	726.4	724.4	720.3	712.3	706.3	696.2
47.5°	676.0	676.0	678.0	678.0	678.0	673.9	673.9	665.9	657.7	649.7	635.6
50°	629.6	625.6	633.6	633.6	627.6	625.6	627.6	617.4	611.5	601.3	587.1
52.5°	579.1	579.1	581.1	581.1	579.1	575.1	577.1	569.0	563.0	552.9	538.8
55°	516.6	512.6	518.5	518.5	516.6	514.5	516.6	510.5	504.5	496.4	484.2
57.5°	446.0	443.9	447.9	450.0	446.0	446.0	447.9	441.9	439.9	431.8	419.7
60°	393.4	391.5	395.5	397.5	393.4	393.4	393.4	385.4	381.3	373.3	365.2
62.5°	357.1	355.2	359.2	357.1	355.2	353.1	355.2	347.1	343.1	335.0	326.9
65°	314.8	316.8	318.9	318.9	316.8	314.8	314.8	310.8	306.8	298.6	288.6
67.5°	274.4	274.4	276.4	278.4	276.4	276.4	276.4	270.4	266.4	260.3	248.2
70°	232.1	230.0	236.1	236.1	232.1	234.1	232.1	230.0	226.0	217.9	207.9
72.5°	187.6	187.6	189.7	189.7	187.6	187.6	187.6	185.7	179.6	175.5	165.5
75°	145.3	145.3	147.3	149.4	145.3	145.3	147.3	143.2	139.2	133.2	127.1
77.5°	109.0	106.9	109.0	109.0	106.9	106.9	106.9	105.0	102.9	96.8	90.8
80°	76.7	74.6	76.7	76.7	76.7	74.6	74.6	72.6	72.6	68.6	62.6
82.5°	52.4	50.5	52.4	52.4	52.4	50.5	50.5	50.5	48.4	46.5	42.4
85°	34.3	32.3	32.3	34.3	32.3	32.3	32.3	32.3	30.3	28.3	26.2
87.5°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	14.2	14.2	14.2	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P857839

CATALOG NUMBER: LX4C35D010 EX4C359830 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9
2.5°	1545.7	1541.6	1553.8	1549.8	1551.7	1541.6	1557.8	1549.8	1559.7	1549.8	1569.9
5°	1519.4	1515.4	1533.6	1531.6	1533.6	1525.5	1543.6	1541.6	1553.8	1545.7	1567.9
7.5°	1491.2	1487.2	1507.3	1509.4	1513.4	1505.3	1529.5	1529.5	1541.6	1539.6	1563.8
10°	1458.9	1460.9	1481.1	1485.1	1493.2	1489.2	1511.3	1517.5	1533.6	1531.6	1561.8
12.5°	1428.7	1428.7	1454.9	1463.0	1469.0	1467.0	1493.2	1501.3	1519.4	1523.5	1551.7
15°	1398.4	1400.4	1424.6	1436.7	1444.8	1442.7	1471.0	1481.1	1503.3	1505.3	1539.6
17.5°	1374.1	1372.1	1398.4	1408.4	1420.5	1418.6	1448.8	1460.9	1483.1	1489.2	1521.5
20°	1353.9	1352.0	1376.1	1388.3	1396.4	1394.3	1424.6	1438.7	1458.9	1463.0	1495.2
22.5°	1329.8	1325.8	1349.9	1360.0	1368.1	1366.1	1392.3	1402.4	1422.6	1426.6	1456.8
25°	1301.5	1297.5	1319.7	1325.8	1331.8	1327.8	1349.9	1356.0	1372.1	1376.1	1406.5
27.5°	1269.2	1259.1	1277.3	1277.3	1281.3	1275.3	1291.4	1297.5	1311.7	1311.7	1339.8
30°	1218.7	1204.7	1214.7	1212.8	1214.7	1206.7	1216.8	1218.7	1228.9	1226.9	1247.0
32.5°	1148.1	1128.0	1134.0	1128.0	1122.0	1109.9	1122.0	1117.9	1126.0	1117.9	1136.0
35°	1051.3	1031.1	1029.1	1021.0	1015.0	1004.9	1004.9	994.8	996.8	990.8	1002.9
37.5°	946.3	920.2	916.2	900.0	889.9	877.7	877.7	869.7	859.5	855.5	865.7
40°	843.4	815.2	805.2	778.9	768.8	756.6	748.6	738.5	734.5	718.4	726.4
42.5°	754.7	724.4	702.2	673.9	663.9	645.7	633.6	621.5	615.5	597.3	605.3
45°	680.0	643.7	619.5	583.1	569.0	548.9	530.7	516.6	502.4	494.4	490.4
47.5°	617.4	579.1	546.8	506.5	484.2	466.1	441.9	427.8	409.7	399.5	393.4
50°	565.0	522.6	486.3	439.9	417.7	397.5	369.3	347.1	330.9	314.8	310.8
52.5°	518.5	474.2	433.8	381.3	355.2	330.9	300.7	276.4	262.3	244.2	242.1
55°	464.1	425.8	381.3	326.9	300.7	276.4	244.2	220.0	201.8	189.7	185.7
57.5°	405.7	369.3	326.9	272.4	246.1	220.0	189.7	167.5	151.3	141.3	139.2
60°	351.2	316.8	276.4	222.0	195.6	173.5	141.3	119.0	105.0	96.8	92.7
62.5°	310.8	278.4	240.1	189.7	165.5	143.2	113.1	92.7	80.7	72.6	68.6
65°	272.4	240.1	205.8	159.4	139.2	119.0	90.8	72.6	60.5	52.4	48.4
67.5°	232.1	203.9	171.5	133.2	113.1	96.8	72.6	56.4	46.5	40.3	36.3
70°	191.6	165.5	139.2	106.9	92.7	76.7	56.4	44.4	34.3	30.3	26.2
72.5°	151.3	131.2	109.0	82.8	70.6	60.5	44.4	32.3	26.2	22.2	18.2
75°	113.1	98.9	80.7	62.6	52.4	44.4	32.3	24.2	20.2	16.1	14.2
77.5°	80.7	68.6	56.4	42.4	38.3	32.3	22.2	18.2	14.2	10.2	8.0
80°	54.5	48.4	38.3	30.3	24.2	22.2	16.1	12.1	8.0	6.1	6.1
82.5°	36.3	30.3	24.2	18.2	16.1	14.2	10.2	8.0	6.1	4.0	4.0
85°	22.2	18.2	14.2	10.2	10.2	8.0	6.1	4.0	2.1	2.1	2.1
87.5°	10.2	8.0	6.1	4.0	4.0	2.1	2.1	2.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P857839

CATALOG NUMBER: LX4C35D010 EX4C359830 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9
2.5°	1586.1	1573.9	1565.9	1575.9	1579.9	1573.9	1579.9	1590.1	1600.2	1602.2	1573.9
5°	1588.1	1575.9	1571.9	1584.0	1586.1	1584.0	1590.1	1604.2	1616.3	1620.4	1592.1
7.5°	1588.1	1579.9	1577.9	1592.1	1594.1	1592.1	1602.2	1618.3	1630.4	1638.5	1610.2
10°	1584.0	1579.9	1582.0	1594.1	1598.1	1598.1	1612.3	1630.4	1642.5	1650.6	1622.3
12.5°	1577.9	1577.9	1577.9	1592.1	1596.1	1598.1	1610.2	1634.5	1642.5	1654.6	1626.4
15°	1567.9	1567.9	1567.9	1582.0	1588.1	1588.1	1602.2	1624.4	1634.5	1646.5	1618.3
17.5°	1549.8	1549.8	1551.7	1563.8	1569.9	1569.9	1584.0	1608.3	1614.2	1628.4	1600.2
20°	1523.5	1523.5	1525.5	1537.6	1543.6	1539.6	1557.8	1577.9	1584.0	1596.1	1567.9
22.5°	1485.1	1485.1	1485.1	1497.2	1501.3	1499.3	1517.5	1535.6	1535.6	1551.7	1521.5
25°	1428.7	1432.7	1428.7	1440.7	1444.8	1442.7	1458.9	1475.0	1471.0	1489.2	1458.9
27.5°	1360.0	1357.9	1357.9	1368.1	1368.1	1366.1	1378.2	1396.4	1392.3	1404.4	1376.1
30°	1265.2	1271.2	1261.2	1275.3	1269.2	1265.2	1273.2	1289.4	1283.3	1293.5	1271.2
32.5°	1156.2	1148.1	1148.1	1148.1	1152.1	1142.1	1150.2	1158.3	1152.1	1162.3	1138.1
35°	1012.9	1015.0	1008.9	1011.0	1012.9	1000.9	1008.9	1016.9	1008.9	1015.0	992.8
37.5°	869.7	871.7	857.6	865.7	857.6	853.6	861.6	865.7	857.6	863.7	839.4
40°	726.4	722.4	720.3	720.3	722.4	712.3	718.4	724.4	718.4	722.4	700.2
42.5°	601.3	599.3	595.3	597.3	591.2	589.2	591.2	597.3	591.2	595.3	579.1
45°	492.3	488.3	482.3	484.2	484.2	474.2	480.2	484.2	478.2	480.2	466.1
47.5°	391.5	385.4	385.4	383.4	383.4	379.3	385.4	383.4	377.3	381.3	367.2
50°	304.7	300.7	300.7	300.7	300.7	294.5	296.6	300.7	294.5	294.5	286.5
52.5°	238.1	232.1	228.0	228.0	228.0	226.0	226.0	228.0	222.0	222.0	220.0
55°	179.6	177.5	171.5	171.5	171.5	165.5	167.5	167.5	165.5	165.5	159.4
57.5°	133.2	127.1	123.1	123.1	119.0	119.0	117.1	119.0	115.0	115.0	110.9
60°	88.7	84.7	82.8	80.7	80.7	78.7	80.7	78.7	78.7	76.7	74.6
62.5°	64.6	60.5	56.4	56.4	56.4	54.5	54.5	54.5	54.5	54.5	52.4
65°	46.5	42.4	42.4	40.3	40.3	38.3	38.3	38.3	38.3	38.3	36.3
67.5°	32.3	30.3	28.3	28.3	28.3	28.3	28.3	28.3	26.2	26.2	26.2
70°	24.2	22.2	20.2	20.2	20.2	20.2	20.2	18.2	20.2	20.2	18.2
72.5°	16.1	16.1	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
75°	12.1	12.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
77.5°	8.0	8.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	6.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	4.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P857839

CATALOG NUMBER: LX4C35D010 EX4C359830 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9	1565.9
2.5°	1604.2	1602.2	1598.1	1604.2	1588.1	1582.0	1579.9	1598.1
5°	1626.4	1622.3	1622.3	1628.4	1610.2	1606.2	1602.2	1622.3
7.5°	1646.5	1642.5	1642.5	1648.6	1632.4	1628.4	1624.4	1644.6
10°	1658.6	1658.6	1658.6	1662.7	1648.6	1644.6	1642.5	1662.7
12.5°	1664.7	1664.7	1662.7	1670.8	1652.7	1652.7	1648.6	1668.8
15°	1656.7	1656.7	1656.7	1662.7	1646.5	1642.5	1642.5	1658.6
17.5°	1636.5	1636.5	1634.5	1640.5	1622.3	1622.3	1620.4	1638.5
20°	1606.2	1606.2	1602.2	1610.2	1592.1	1586.1	1584.0	1602.2
22.5°	1557.8	1555.7	1553.8	1557.8	1541.6	1537.6	1535.6	1551.7
25°	1495.2	1493.2	1489.2	1493.2	1475.0	1469.0	1469.0	1481.1
27.5°	1406.5	1406.5	1400.4	1406.5	1386.2	1384.3	1382.2	1396.4
30°	1297.5	1289.4	1285.4	1293.5	1273.2	1273.2	1269.2	1283.3
32.5°	1162.3	1154.2	1152.1	1156.2	1138.1	1132.0	1140.1	1148.1
35°	1007.0	1008.9	1000.9	1000.9	984.8	986.7	988.8	1000.9
37.5°	857.6	853.6	851.5	853.6	841.4	837.4	833.4	845.5
40°	718.4	708.2	706.3	706.3	696.2	694.2	696.2	702.2
42.5°	587.1	585.2	577.1	581.1	571.0	575.1	573.0	573.0
45°	474.2	476.2	468.1	474.2	466.1	460.0	460.0	464.1
47.5°	375.3	375.3	373.3	373.3	367.2	369.3	365.2	371.3
50°	290.5	290.5	286.5	288.6	284.6	284.6	282.5	284.6
52.5°	222.0	220.0	220.0	217.9	213.9	216.0	217.9	213.9
55°	161.4	163.5	159.4	161.4	157.4	159.4	157.4	159.4
57.5°	110.9	113.1	109.0	113.1	109.0	110.9	109.0	109.0
60°	76.7	76.7	74.6	76.7	74.6	74.6	72.6	76.7
62.5°	52.4	52.4	52.4	52.4	52.4	50.5	52.4	52.4
65°	38.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
67.5°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
70°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
72.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
75°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	0.0	2.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)